

Patent Abstracts of Japan

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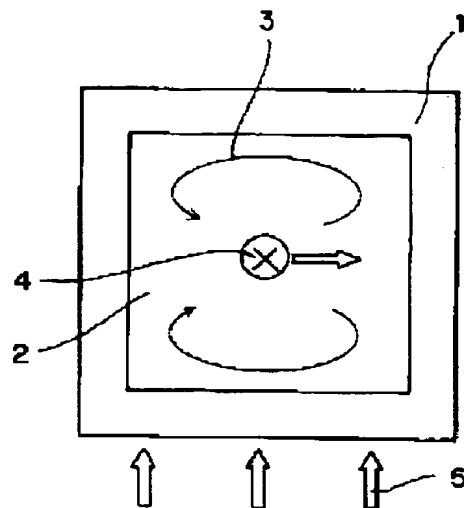
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APPLICANT : KAWASAKI STEEL CORP;

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TITLE : PURIFICATION OF METAL SILICON  
AND DEVICE FOR PURIFYING THE  
SAME



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for purifying metal silicon, capable of solving the difficulty of the removal of boron from the silicon melted with plasma and more effectively purifying the metal silicon than conventional methods, and to provide a device for purifying the same.

SOLUTION: This method for purifying the metal silicon comprises blowing a plasma jet flow comprising an inert gas on the surface 2 of the melted silicon in a melted metal silicon bath to remove impurities contained therein. Therein, steam is mixed with the inert gas or blown on the surface of the melted silicon in the melted metal silicon bath, and a direct magnetic field is further applied so that the direction of the flux is parallel to the surface of the melted silicon in the melted metal silicon bath.

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